

1645

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/252,691C

DATE: 11/28/2000
TIME: 12:05:30

Input Set : D:\Pat9903.pto
Output Set: N:\CRF3\11282000\I252691C.raw

pH 18

4 <110> APPLICANT: Keith G. Weinstock et al.
6 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER
7 CLOACAE FOR DIAGNOSTICS AND THERAPEUTICS
9 <130> FILE REFERENCE: 107196.135
11 <140> CURRENT APPLICATION NUMBER: US 09/252,691C
12 <141> CURRENT FILING DATE: 1999-02-18
14 <150> PRIOR APPLICATION NUMBER: US 60/094,145
15 <151> PRIOR FILING DATE: 1998-07-24
17 <150> PRIOR APPLICATION NUMBER: US 60/074,787
18 <151> PRIOR FILING DATE: 1998-02-18
21 <160> NUMBER OF SEQ ID NOS: 11326
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25 <211> LENGTH: 432
26 <212> TYPE: DNA
27 <213> ORGANISM: Enterobacter cloacae
29 <400> SEQUENCE: 1

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32	tgctccctg	ctccttcgg	ttgcgtttt	tcctgtcgt	tttgccttc	cgctcctgcc	180
33	gcgtcctgt	ttatattagt	cgtggcgtg	ttgtctgcc	tgcgttcgt	cgtctttccg	240
34	gttctctct	ttggttcct	gtgcctcgc	tggttcctg	tcttcgctt	ccttggtggc	300
35	ctgtggatgg	atcaggggt	ggtgtcgtg	cttcgtcag	tcttgctgg	gccgggaagc	360
36	cataaaaacc	cgtgacgt	ggtgatcag	gggttatcc	tcctgccc	tgtctggtca	420
37	gtgatctgc	tg					432

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40 <211> LENGTH: 231
41 <212> TYPE: DNA
42 <213> ORGANISM: Enterobacter cloacae
44 <220> FEATURE:
45 <221> NAME/KEY: unsure /
46 <222> LOCATION: (217)
48 <220> FEATURE:
49 <221> NAME/KEY: unsure /
50 <222> LOCATION: (218)
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55	agcagccaga	acaccagcag	agacacaaag	accaccgagg	cgaacccgat	ccagaaaagac	180
W--> 56	ggcgacaaca	tcagcacgaa	gaagacgaac	cgggacnnaa	atcgtaactta	a	231

58 <210> SEQ ID NO: 3
59 <211> LENGTH: 490
60 <212> TYPE: DNA
61 <213> ORGANISM: Enterobacter cloacae
63 <400> SEQUENCE: 3
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65 cggtcaggag gagaagaaa tcggcacgcg caggatcgag cggaaagaag cccccgtcgt 120
66 caccggggcg gaggagaagg cgaaaggcca gaacctcgcg ccgaaagcgg agaagagcga 180

ENTERED
see p.5

RECEIVED

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TECH CENTER 1600/2900

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67 atccggctca ccgaaagaaa gcaggaaggg ggagaaaacg gagcagagca tcggcgagga      240
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69 cagtcagggtg aacgcgcagc aggcgaacga gatcggcctc ggcaaacggg aagatttcac      360
70 acagattcat caggcgcgca ggatcggcaa gccgcacata acctcgccca cctttaacgt      420
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82 gtgagcaccg tgaagagact ggccgcgcgc tggaaacggg aaattttcga cggcttcaca      180
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84 tatcgcgaaa actttattaa gctctga                                     267
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87 <211> LENGTH: 393
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89 <213> ORGANISM: Enterobacter cloacae
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94 atcgccacac tggtcacoga tgccaacctc aatattcttg cggaaggccc aacgattgcc      180
95 gtgcaccagt ccgatgacca gcttgcgctg atggatgagt ggaacgtgcy taccataacc      240
96 ggcagcgggc tggtggaacg cgtgaaggcc agcacccctg gcgaccgga agcggagctg      300
97 gcgacgcttg aatttctgaa gcagtgggtg ccggcaggaa aatcgccat ctgtgggcaa      360
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102 <212> TYPE: DNA
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108 cgtaccctcg tcattgteta ccctccatt ctgagcgatg ggtgttttaa ttctgtggtg      180
109 atgcagaccc tgtttacat tcccttcttc ctgattgggg cgctggcatt tattcatccc      240
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111 ttgtccgcct atcttctcaa tcagcgctat ggcagcgggg acgctgggat gtatgaaaca      360
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113 catcgtctcg tgaattttaa atccagtcgc gtcacctatt tcgttaatgc ttcgctgttt      480
114 atctacctgg ttacacatcc gctgacgctg tttttcgggg cgtacattac gccgcatac      540
115 gcctcgaaatg cgtggggett cttcacgggc ctggtctttg tggttggcat tgccatcgtg      600
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120 <211> LENGTH: 647
121 <212> TYPE: DNA
122 <213> ORGANISM: Enterobacter cloacae

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133 <221> NAME/KEY: unsure /
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138 ttctccctgt gggatacatt ggtgaaaaag qcggttgca gaggggtgtt atgagaccgc 120
139 aaatcgacgt tattcatggc gatatacga cgggtgcgct tgacgtgac gtcaacgcag 180
140 ccaattcctc cctgatgggt ggtggcgggg tggacggtgc cattcaccgg gccgcaggcc 240
141 ctcaactcct tgaagcatgc aaaaccgtgc gtcagcagca gggagagtgc ccgcgggggc 300
142 atgctgttat tacgcttgcg ggcgatctcc cggccaaaag ggtgatccat accgttggac 360
143 ccgtctggca cgtggcgac cgcctgagg ctgagattct ggaagcggcg tatcgttaact 420
144 gcatgcggct tgcggcggt aacgggtata agaccatggc gttcccgcc attagcaccg 480
145 ggggtgttcg ctatccaaag gaagcgcag ctacgatcgc cgtgaatacc gtttatcaat 540
146 acctttccct caaacccatg ccggaaaaag tcatttttgt ctgtttcgtat gagcacaccg 600
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150 <211> LENGTH: 924
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157 tggctgatcg tgcgtcgtat tgtcctttat aagctcggcg acgctttcgc catgaatctg 180
158 accaccacct tctgatcccg cggcgtcggg ttgatgcgg gggaggtcgg cgtggtgaac 240
159 aaaaccctgg gctgtttgc cagcatcgtc ggcgcgctgt acggcgcgct attgatgcag 300
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162 ttgaaaaatc tgtgcggagg tatgggcaca gcggcatttg tgcacctgct gatgacgctg 480
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164 cgcgtgtacg taggtcccg tgcgggctgg tttgttgaag cccacggctg gccgacattt 600
165 tatctcttct cgggtggtgc ggcgtgccc gggattttat tgttctggt ctgtcggcag 660
166 acgctggaat ataccagcg gacggaacac ttcattgccg gcacggaata tcaggtgcc 720
167 taccggtttg cctgcgtct gctgatggca ggttctcttg cgtggttagt gtggctcgcg 780
168 gtactcatta tcaatgcgac gaccaccttg tgccttccct ttgaaaccca gctgcttgat 840
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177 <220> FEATURE:
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179 <222> LOCATION: (997) /

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184 ctcaaccgtg cattcacacc aaaggggtgat tttggaagag taattttctc agcaataaac 180
185 gcatcaaaac aaattaacgc tgcattttca aagagcatga attttgatga agctggtaaa 240
186 tctctgtgta aatctgtaga gaatgctgct aaggcttctg caaaacgcac taaggatatg 300
187 tatcaggacg cttacggggc taaaggaaaa ggcgcgtcaa atccaccagc agccggaaa 360
188 ccacaaggca gaggtcaga tttaacagcc gctaattcaa tccgttccact cgctaatact 420
189 cagttctatt cgaattctgac aagacgctta gaggtatggt gttcaactgg acaagcaagg 480
190 gcgatgaaat tacgccagca ggttcacgga ttgagagatg atgcttttagc caatccctca 540
191 gccagtttga atcaattccg tttagcatta cgtgcagcca ctgatagcgc gtctaaatgg 600
192 qctttctcaga accgtaaaaca ggtatctaat gcagaagggt tatcaagctc cttcggtcgt 660
193 ctggttaagcg tttcagcggc gttatacggg acatttgaag ccgtccgtaa ggtggttgaa 720
194 acaggtgtag ccggtgaagg tgtgaatctc tctgctgaag ctgtctttaa agggcaatcg 780
195 aaaaatgcta agacattcgc ggtcagttc tctgaccaa tcygacaggg tytcaactgag 840
196 accttgaaac agtacactgg ctttgcgcg ggtgctcaga attcgttagg ctatcaggg 900
197 acacaggact tctataagaa tgcgtctgta ttcggtcgta ttcgtgggct tgatgctgaa 960
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201 <211> LENGTH: 1170
202 <212> TYPE: DNA
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205 <400> SEQUENCE: 10
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215 gatggcaacc gcttcaatga cgtgtttctt gctcaactgc gcccgaaaag taacgctcgg 600
216 ccttctgttg tgggtggcga ctccggtcag ctgtctcagc gtaaaagacg ctctcagggt 660
217 gtcacgctga acaaaaggaac gcgttttcgaa ggcacggcta tgcgtgcgca cttccgtatt 720
218 accgatattc agaactacca ggcacatcatt gttcatcagg ccgtcgcgct cgaatccaa 780
219 gatactgagc agatggatat gcgcacctta atgaataccg ataccgatcg tgcgcgtgct 840
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221 ccgctgagcg tgytgaaccc gcgccagggc cgcgtgctgt cgaatgctgc agcgatgctg 960
222 ctgtatctgg tgttcttctc gctgcaaacc tcaatcaagt ctaacggcgg gaaaggaaaa 1020
223 attgaccgca tgatctggac ctgggtcgtg aatggtttgt atctgctgct ggcagtcgga 1080
224 ctcaacttgt gggacacggg gctgtgctgt cgtcttcgtg cccggtttac gcgtaaaagg 1140
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228 <211> LENGTH: 756
229 <212> TYPE: DNA
230 <213> ORGANISM: Enterobacter cloacae
232 <220> FEATURE:
233 <221> NAME/KEY: unsure

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234 <222> LOCATION: (672)
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239 atggcccggc actacacgga gctgccaaaa tatctgctgg ctccggaagt ggccggactg 180
240 ctgcactttg ttccaggacty gggtcagcac gcttttttta atacgttatg gaataccggg 240
241 gcacgcctga acgaaggcct tgccctgaga cggcgtgact ttcaccttaa cgaagacatt 300
242 ccgcagtgcg ttcttcgcac cgccaaacag cggcgtgccg gcggcgcccg tccgcgtaag 360
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245 gcgcaccccg tctggaatgt ttccgaccgg acggtgcgta actggctggt ccggcgact 540
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247 cacagttttg caatgcacct ttatatggc cagtttacc ctaaggctact ccaagggtctg 660
W--> 248 ctggggcatg anaagtttga gactactgag gtctatacga aaatatttgc gctcgacgtg 720
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264 gttctagcaa aggaaccttt ttggtattcca gaaatggatc caaagatggc tgtgctgttt 240
265 ttcaaaacta aaacctcgta tcgagctccg ctgaacaaag actacatacc aaatccccga 300
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269 cgcagtctta atgggtggtaa tacaggtttt gtacacagcg atttgttaac gggatttctg 540
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272 actgctaalg gctacacgcg atttattggt actgcaacaa caaacatgag tggaggcgct 720
273 cgccggttcg ttctcttctca acgtcaagat gcagctttta taaagcgggt cttgatagtt 780
274 gaaatggaga agcccgacaa agttgcttta accaatgtgc ttactaaacg atatagctct 840
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286 caacagcaat ccgccgcact tggcagaacg gcaacgcaac cggcaaacca gaaagcgatc 180
287 gccaatctgg tatacgggtg tgagtgggga aaagaacacc ttggcaatca ggtcgtggt 240
288 gatggctgga aatatcgcg tegtgggcty aaacagatta ccggcctgag caactatcgc 300

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 11/28/2000

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TIME: 12:05:31

Input Set : D:\Pat9903.pto

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L:56 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:56 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:137 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7
L:137 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:198 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9
L:198 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:248 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11
L:248 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:276 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12
L:276 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:561 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
L:561 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
L:562 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
M:340 Repeated in SeqNo=14
L:577 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15
L:577 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:611 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:16
L:611 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
L:641 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:17
L:641 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
L:670 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18
L:670 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
L:724 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:22
L:724 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22
L:816 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:28
L:816 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28
L:904 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:32
L:904 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32
L:974 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:36
L:974 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36
L:1188 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:49
L:1188 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:49
L:1233 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:52
L:1233 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:52
L:1327 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:57
L:1327 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57
L:1369 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:60
L:1369 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60
L:1423 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:62
L:1423 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62
L:1458 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:64
L:1458 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64
L:1577 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72
L:1577 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72
L:1581 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72
M:340 Repeated in SeqNo=72
L:1610 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:74
L:1610 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74

VERIFICATION SUMMARY

DATE: 11/28/2000

PATENT APPLICATION: US/09/252,691C

TIME: 12:05:31

Input Set : D:\Pat9903.pto

Output Set: N:\CRF3\11282000\I252691C.raw

L:1661 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:75
L:1661 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:75
L:1890 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:88
L:1890 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:88
L:2101 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:100
L:2101 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:100
L:2118 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101
L:2118 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101
L:2166 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102
L:2166 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102
L:2194 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
L:2194 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103
L:2195 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
M:340 Repeated in SeqNo=103
L:2368 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:113
L:2368 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:113
L:2562 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:122
L:2562 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122
L:2657 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
L:2657 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:127
L:2675 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
M:340 Repeated in SeqNo=127
L:2676 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
L:2827 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:134
L:2827 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:134
L:2859 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135
L:2859 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135
L:2860 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135
M:340 Repeated in SeqNo=135
L:3073 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:3073 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:148
L:3096 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:149
L:3096 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:149
L:3178 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:152
L:3178 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:152
L:3295 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3295 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156
L:3297 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
M:340 Repeated in SeqNo=156
L:3298 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3299 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3346 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:158
L:3346 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:158
L:3526 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
L:3526 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:160
L:3529 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
M:340 Repeated in SeqNo=160
L:3530 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
L:3699 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:161

VERIFICATION SUMMARY
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M:340 Repeated in SeqNo=161

L:4214 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189

L:4231 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:190